

CLAIMS

What is claimed is:

1. A method for intelligent spellchecking, comprising:

5 performing a spellchecking of a word by considering an entire sentence
and a structure of the entire sentence, in determining whether the word is
misspelled.

2. The method of claim 1, further comprising:

10 parsing the sentence to produce a first parse;
examining a list of words in the sentence and identifying a confusable
original word along with its potential replacement;
replacing the confusable word with its replacement to produce a
resulting sentence; and
parsing the resulting sentence to produce a second parse.

15 3. The method of claim 2, further comprising:

comparing slot-filling information of the first parse to slot-filling
statistics for the original word.

4. The method of claim 3, further comprising:

20 comparing slot-filling information of the second parse to the slot-
filling statistics for the replacement word.

5. The method of claim 4, further comprising:

comparing two matches with the slot-filling statistics found for the original word and the replacement word.

5 6. The method of claim 5, wherein a better match indicates the preferred spelling in context.

7. The method of claim 2, wherein said first and second parses produce a parse score and in determining a parse score each parse automatically considers a slot-filling statistics of the original word and the replacement word.

10 8. The method of claim 2, wherein a comparison of the matches includes checking both a mother designation and a daughter designation of words in said sentence.

9. The method of claim 1, wherein a decision as to which word is best depends on comparing first and second parse scores, independently of any use
15 of lexical statistics.

10. The method of claim 1, wherein a selection of a best match for a word determined to be misspelled is performed by comparing first and second parse scores.

11. A system for intelligent spellchecking, comprising:

a spell checker for performing a spellchecking of a word by considering an entire sentence and a structure of the entire sentence, in determining whether the word is misspelled.

5 12. The system of claim 11, further comprising:

a parser for parsing the sentence to produce a first parse;

a detector for examining a list of words in the sentence and identifying a confusable original word along with its potential replacement; and

10 a replacement module for replacing the confusable word with its replacement to produce a resulting sentence,

said parser parsing the resulting sentence to produce a second parse.

13. The system of claim 12, further comprising:

15 a comparison module for comparing slot-filling information of the first parse to slot-filling statistics for the original word, for comparing slot-filling information of the second parse to the slot-filling statistics for the replacement word, and for comparing two matches with the slot-filling statistics found for the original word and the replacement word.

14. The system of claim 13, wherein a better match indicates the preferred spelling in context.

15. The system of claim 12, wherein said parser produces first and second parse scores and in determining a parse score each parse automatically considers a slot-filling statistics of the original word and the replacement word.

5 16. The system of claim 12, wherein a comparison of the matches includes checking both a mother designation and a daughter designation of words in said sentence.

10 17. The system of claim 11, further comprising a judgment module for making a decision as to which word is best based on comparing first and second scores, independently of any use of lexical statistics.

18. The system of claim 11, further comprising a selector for selecting a best match for a word determined to be misspelled.

15 19. The system of claim 11, wherein a selection of a best match for a word determined to be misspelled is performed by comparing first and second parse scores.

20. A method for intelligent spellchecking, comprising:

performing a spellchecking of a word by considering an entire sentence and a structure of the entire sentence, by performing a first and second parse to

obtain a first and second parse score, in determining whether the word is misspelled.

21. The method of claim 20, wherein a decision as to which word is best depends on comparing said first and second parse scores.

5 22. The method of claim 21, wherein said decision is made independently of any use of lexical statistics.

23. A signal-bearing medium tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform a method for computer-implemented intelligent spellchecking, said method comprising:
10 performing a spellchecking of a word by considering an entire sentence and a structure of the entire sentence, in determining whether the word is misspelled.